

October 29 - November 4, 2004

All Terra Subsystems and Instruments have performed nominally for the past week.

On October 28, 2004, the second of three planned Terra Inclination Adjust Maneuvers (IAMs) was performed successfully to a very high accuracy. The delta inclination was $+0.015716\text{deg}$ varying only -0.000044deg from what was planned. Likewise, the delta Semi-Major Axis (SMA) was $+45.0\text{m}$ varying only -3.9m from the planned change. Results of this maneuver (IAM#11) will be incorporated into planning for IAM#12.

A MODIS Roll Maneuver CAM and the maneuver itself were made on November 1, 2004. The maneuver consisted of a -14.16 degree roll starting at 00:15:44 and lasted approximately 20 minutes. There were no problems and the maneuver was a success.

A SpectroRadioMetric Calibration Assembly (SRCA) Control Authorization Meeting (CAM) was held on Nov. 2. This is an activity that occurs once or twice a month involving calibration of the MODIS instrument using an internal calibration sphere. Most times this calibration is very quick (seconds) and does not require a CAM. Since this particular calibration will involve much longer integration times (minutes) and will require three back-to-back calibration sequences, it was prudent to require a CAM.

Five Mission Impact Reports (MIRs) occurred this week having to do with the High Gain Antenna Motor Drive Assembly (MDA2) BITE failures while in the South Atlantic Anomaly (SAA). In all cases there was no impact to science objectives and no data loss.

One Mission Impact Reports (MIRs) occurred this week having to do with K-band dropouts with TDRS West (TDW) during a science playback. This is a common problem that occurs more frequently (1-2/week) this time of year. In any event, no science data were lost due to replaying data during the same TDRS contact.

The scheduled transition of the ECS contract to the MOMS contract is planned for January 15, 2005 (Aura launch plus 180-Days). The FOT will transition on December 20, 2004.